



2014 Underground Injection Control Conference *Aquifer Management & Underground Injection*

NEW ORLEANS, LA JANUARY 21-23, 2014

The UIC Conference is the place to be to learn the latest information about underground injection control. We cover UIC topics from both a technical and regulatory perspective including the most recent changes to state and federal requirements and guidance.

We offer the only Class I Operator Training Course in the United States.

At this event you will have a chance to talk to regulatory officials from state, local and federal government as well as people who manage groundwater quality and quantity and stormwater or work with oil and gas, chemical, uranium mining, and other industries that utilize underground injection.

GWPC NOW ACCEPTING REGISTRATION
for the 2014 Annual UIC Conference

The Annual UIC Conference will be held at the
Hotel Monteleone

JANUARY 21-23, 2014
NEW ORLEANS, LOUISIANA



Hotel and conference registration Information
available at www.gwpc.org/events

Event Registration Information *Now Open* Conference Rates:

Full Conference – Government - \$325
Full Conference – Non-Government - \$425
Full Conference – Presenter Discount Rate - \$175
One Day Rate - \$225

Hotel Registration Information *Now Open* Hotel Monteleone

214 Royal Street New Orleans, LA 70130
"Ground Water Protection Council" Room Block
Conference Room Rate: \$151: Reservations: 504-523-3341
Special Conference rate is good through January 3rd

Register at www.gwpc.org/events

Tuesday, January 21			
1:00 - 6:00	<p>Class I UIC Operator Training Steve King, Subsurface Technologies</p> <p><i>Part 1 – Power Point presentation/training, Class overview/basics</i></p> <ul style="list-style-type: none"> - History of Injection and Overview of UIC Program - Permitting - Petitioning - Siting Criteria, Geology, and Reservoir Properties - New Class I Well Construction Well Repair & Workovers - Operating Procedures - Fluid Quality - Inspections - Mechanical Integrity Testing - Reservoir Testing <p><i>This is an interactive course. Questions from the participants are encouraged.</i></p> <p><i>Part 2 – Roundtable well discussion</i></p> <p>We are planning an interactive UIC roundtable discussion and training session to cover areas of interest to each and every person attending. If you have a specific well problem or just an area you may like to get a more thorough understanding, please let us know and we will cover those items. If you do not have a specific item you want covered we also encourage you to attend.</p>	<p>Professional Development Session: “Dealing with Contentious People” Scott Kell, Consultant (Full agenda TBA)</p> <ul style="list-style-type: none"> - <i>Planning and conducting public meeting (state examples)</i> - <i>Appropriate communication of technical information with hostile audience</i> - <i>Preparing for expert testimony</i> 	<p>Oil and Gas Development and Environmental Protection Workshop Dan Arthur, ALL Consulting</p> <p>This workshop will address issues such as: The focus of the workshop is environmental protection, with an emphasis on groundwater and surface water protection. This has become a critical aspect of energy development and can have a broad array of technical considerations. An example of the technical details that will be covered in the workshop are presented below:</p> <ul style="list-style-type: none"> - Well casing and cementing design - Well integrity testing - Well Integrity evaluations related to “stray gas” - Well pad design and construction - Discussion of well pad design alternatives - Managing design alternatives under varied environmental conditions - Use of Geomembrane plastic liners - Advances in containment systems - Well pad containment - Installation and containment related to well cellars - SPCC Plans (storage facilities, flow-through process equipment) - Preparedness and planning for emergencies - Effective containment systems - Variations between shale plays - Recommended practices during drilling, cementing, completion, and operations - Responding to spills



The 2014 UIC Conference is part of the
Spotlight Series is a tech transfer initiative of the
*Ground Water Research & Education
Foundation*



Wednesday, January 22		
8:15-10:00	<i>Aquifer Management & Underground Injection</i> <ul style="list-style-type: none"> - Mike Paque, GWPC & Jamie Crawford, MS DEQ & GWPC President - Peter Grevatt, USEPA - EPA Overview of UIC Program - Bob VanVoorhees, UITC – National UIC Update - James Welsh, LA O&G-UIC (<i>invited</i>) 	
10:30-12:00	<i>National UIC and Aquifer Management: Issues and Activities</i> -Aquifer Storage and Recovery (ASR) September 2013 EPA letter clarifying EPA regulations as they apply to the injection and storage of water in underground formation for later withdrawal for use. <ul style="list-style-type: none"> • EPA overview Holly Green, USEPA • Implementation for state of Florida Joe Haberfeld, FL DEP • Implementation from other parts of the country Frederick Bloetscher, Florida Atlantic University (<i>invited</i>) • Legal interpretation and implications to other primacy programs – Bob VanVoorhees, UITC 	<i>Oil & Natural Gas Stray Gas Incident Response, Environmental Sampling, Analysis and Risk Assessment Workshop</i> Facilitators: Fred Baldassare , ECHELON Applied Geochemistry, and Debby Yost , Chesapeake Energy This workshop will provide the protocol, investigative techniques, data requirements, and mitigation techniques that are fundamental to stray gas incident response. The workshop will also highlight considerations for monitoring, laboratory methods, and interpretations of methane concentration data, and gas and groundwater geochemistry data. <ul style="list-style-type: none"> • Introduction • Research, Regulatory & Policy Initiatives • Physical/chemical properties of methane & light gases <ul style="list-style-type: none"> ○ Gas phase ○ Dissolved phase • Sampling for dissolved and gas phase methane • Protocol for dissolved phase & gas phase sampling <ul style="list-style-type: none"> ○ Evaluation of field and laboratory methane data ○ Isotope sampling protocol
12:00-1:15	<i>GWPC 2014 UIC Conference Luncheon</i> <i>Presenter TBA</i>	

1:15-5:30	<p><i>National UIC and Aquifer Management: Issues and Activities (cont.)</i> Uranium and Uranium Progeny in Groundwater Associated with Uranium Or Bearing Formations - Mark Pelizza, Uranium Resources, Inc -Class III UIC Uranium Mining Permitting Process</p> <ul style="list-style-type: none"> regulator perspective Mark Pelizza, Uranium Resources, Inc permitting entity perspective David Murry, TCEQ <p>SAWS Brackish Desalination Project – Production to Injection Wells – Bill Stein, LBG-Guyton Associates</p> <p>Subsidence and Coastal Geomorphic Changes in Central Louisiana – Jack Kindinger, USGS St. Petersburg Coastal Marine Science Center</p> <p>Agriculture Wells and UIC – Kurt Hildebrandt, USEPA R7 & Michael Anderson, Iowa Department of Natural Resources</p> <p>-Motor Vehicle Well Disclosure Rick Cobb, IL EPA <i>(invited)</i></p> <p>- Stormwater Rule Connie Bosma – EPA <i>(invited)</i></p>	<p><i>Oil & Natural Gas Stray Gas Incident Response, Environmental Sampling, Analysis and Risk Assessment (cont.)</i></p> <ul style="list-style-type: none"> Stray Gas Origin & Source Correlation – Isotope Geochemistry <ul style="list-style-type: none"> Basis & application Types of isotope analyses Data evaluation/interpretation Secondary processes Potential impacts to groundwater geochemistry <ul style="list-style-type: none"> thermodynamic predictions Redox. Stray Gas Case Studies Stray Gas Migration Response Protocol – Site Investigation/demonstration <ul style="list-style-type: none"> Methodology to determine threat level <ul style="list-style-type: none"> Combustible Gas Field Screening – gas phase and dissolved phase Protocol for Active Soil Gas Surveys Long-term monitoring for stray gas - soils & groundwater Data evaluation Subsurface gas migration: fate and transport <ul style="list-style-type: none"> subsurface gas migration: fate and transport Geologic setting <ul style="list-style-type: none"> Mechanism of transport Factors affecting subsurface gas migration Measures to protect public health & safety Interim Remedial Measures Long-term Remedial Measures Principles and design
5:45-7:30	GWPC 2014 UIC Conference Reception	

Thursday, January 23		
8:00-9:40	<p>State / EPA Roundtable <i>(State & Federal Employees ONLY)</i></p> <p>Items may include:</p> <ul style="list-style-type: none"> -Class VI: New applications; Program updates -National Technical Workgroup Induced Seismicity, etc. -Diesel Guidance -UIC National Database -Stormwater Rule – OGWDW Input -RCRA Exemption Waste: Does it stay exempt after treatment? -Aquifer Exemption -Class I No Migration Petition Issues 	<p>Underground Injection Control Financial Responsibility Joe Tiago, US EPA Office of Groundwater and Drinking Water</p> <p>In 2011 and 2012, EPA Headquarters conducted a multi-phased effort to improve its understanding of on-the-ground implementation of Underground Injection Control (UIC) financial responsibility (FR) requirements. The effort consisted of roundtable discussions, remote file reviews of FR demonstrations, and site visits to state and direct implementation UIC programs in four EPA Regions. In this session EPA summarizes the findings of this effort and identifies best practices and recommendations for FR file management and review, instrument language and provisions, and coverage criteria. Based on the results of this effort, EPA Headquarters has developed two new tools designed to assist UIC FR programs implement FR requirements: (1) FR instrument review checklists, and (2) Geologic Sequestration Cost Estimation Tool. The session will review these tools in a workshop-style setting to provide a detailed description of how to use the tools answer questions from participants.</p>
10:00-12:30	<p>Class VI UIC and Carbon Capture & Underground Storage Facilitator Bob VanVoorhees, UITC</p> <p>Global Status of Carbon Capture and Storage Victor Der, General Manager - The Americas of the Global CCS Institute</p> <p>DOE Update – Mark Ackiewicz, Office of Fossil Energy, USDOE</p> <p>Storage Effectiveness for EOR with Respect to State Reporting – Susan Hovorka, Gulf Coast Carbon Center</p> <p>USEPA Class VI and CCS Progress & Update Enhanced Recovery to Storage Transition Guidance - Molly Rose Bayer, USEPA</p> <p>North Dakota Class VI Primacy Application Experience - Kevin Connors – ND Industrial Commission</p>	<p>The Impact of the Shale Play Revolution: How State Agencies are Responding Facilitator John Veil, Veil Environmental</p> <ul style="list-style-type: none"> • Overview of U.S. Shale Development • State Programs Affected by Shale Development • How Is Workload Increasing? • State Strategies and Mechanisms for Managing the Additional Workload • Role of State & other Professional Associations • Role of New Technologies and Research to Improving Efficiency of Shale Development – How do these Influence State Oversight and Workload? • Collaboration with Industry and Other Stakeholders to Streamline Regulatory Development and Shale Production
1:30-3:30	<p>Class I & II UIC Issues Discussion Session <i>(Everyone welcome)</i> Facilitators Bob VanVoorhees, UITC & Ben Knappe, UIC Regulatory Issues Consultant</p> <ul style="list-style-type: none"> • Streamlining No Migration Petition Process • Class I/Class II Overlap: Competition for Limited Injection Zones <p>Class I and Class II wells have the same needs for porous and permeable injection zones adequate to accept and hold injected fluids and to protect underground sources of drinking water (USDW). It is increasingly apparent that such injection zones with their pore-space capacity for holding injected water are not in infinite supply. Growing demands for oil and gas waste disposal from hydraulic fracturing and production have resulted in a surge in the demand for Class II disposal well capacity, increasing construction of new wells and imposing new volumes – and consequently elevated pressures – on injection zones of existing wells. Among the issues operators and regulators are confronting are:</p> <ul style="list-style-type: none"> • What factors or conditions are driving increased interstate transportation (e.g., from Louisiana to Texas) of oil and gas waste (produced water) for disposal in commercial Class II wells? • How should responsibility be apportioned between well operators for keeping injection-zone pressure below levels of possible hazardous waste migration from injection zones and USDW endangerment? • How should limits on injection volume and pressure be determined, coordinated, and enforced by regulatory agencies with dissimilar area of review (AOR) and other rule requirements, but with overlapping jurisdictions in the same locale? • Under state or federal law, do operators of existing permitted wells have precedence in use of a permitted injection zone over persons wanting to expand capacity or operate new injection wells in the zone? • Should operators of existing Class I hazardous waste wells be subject to EPA termination of land disposal restriction (LDR) exemptions as a consequence of increased injection zone pressures attributed mostly to Class II injection? • Should Class II well operators share in responsibility for assuring no migration of hazardous waste from injection zones when injection volumes and induced pressures in zones shared with preexisting Class I hazardous-waste wells are dominated by Class II well activities? 	

Registration Form – 2014 GWPC UIC Conference – January 21-23

Name: _____

Title: _____

Organization: _____

Address: _____

City/ST/Zip: _____

Phone: (_____) _____ Fax: (_____) _____

Email: _____

Registration Fees: ☐ Full Conference: Government - \$325 ☐ Full Conference: NON-Government - \$425 ☐ One Day - \$225 ☐ Presenter - \$175 ☐ Comp*

Method of Payment: ☐ Visa/MC ☐ Amex ☐ Discover ☐ Check Enclosed

Credit Card # _____ Expires: _____

Signature: _____

Register online at www.gwpc.org

Return registration form by fax: (405) 516-4973

Or mail to: The Ground Water Protection Council, Attn: Brenda Short, 13308 N MacArthur, Oklahoma City, OK 73142

*Pre-approved required



The GWPC provides a forum for stakeholder communication and research in order to improve governments' role in the protection and conservation of groundwater.